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| L6 and steady state | 36 |

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 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

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L7

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 DATE: Tuesday, May 31, 2005 [Printable Copy](#) [Create Case](#)

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| <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i> | | | |
| <u>L7</u> | L6 and steady state | 36 | <u>L7</u> |
| <u>L6</u> | L5 and (explos\$6 or flam\$6) | 302 | <u>L6</u> |
| <u>L5</u> | L4 and (560/\$ or 562/\$) | 1045 | <u>L5</u> |
| <u>L4</u> | L3 and reactor | 14234 | <u>L4</u> |
| <u>L3</u> | L2 and cataly\$6 | 38901 | <u>L3</u> |
| <u>L2</u> | L1 and (Propylene or propane or acrolein or isobutylene or methacrolein or xylene or naphthalene or benzene or butane) | 53806 | <u>L2</u> |
| <u>L1</u> | OXID\$5 and gas and oxygen and absor\$6 | 111141 | <u>L1</u> |

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Search Results - Record(s) 1 through 10 of 36 returned.

☐ 1. Document ID: US 20050038291 A1

L7: Entry 1 of 36

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050038291

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050038291 A1

TITLE: Preparation of (meth)acrolein and/or (meth)acrylic acid

PUBLICATION-DATE: February 17, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-----------------------------|--------------------|-------|---------|---------|
| Petzoldt, Jochen | Weisenheim am Berg | | DE | |
| Unverricht, Signe | Mannheim | | DE | |
| Arnold, Heiko | Nanjing | | CN | |
| Muller-Engel, Klaus Joachim | Stutensee | | DE | |
| Dieterle, Martin | Mannheim | | DE | |

US-CL-CURRENT: 562/545; 568/476

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|

☐ 2. Document ID: US 20040199006 A1

L7: Entry 2 of 36

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199006

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040199006 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------------|------------------|-------|---------|---------|
| Graham, Derek Alexander | Cleveland | | GB | |
| Hamley, Paul Anthony | Nottingham | | GB | |
| Oliver, Raymond | Stockton On Tees | | GB | |
| Poliakoff, Martyn | Nottingham | | GB | |

| | | |
|---------------------|-----------|----|
| Woodcock, Duncan C. | Cheshire | GB |
| Ilkenhans, Thomas | Cambridge | GB |

US-CL-CURRENT: 562/412

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 3. Document ID: US 20040015012 A1

L7: Entry 3 of 36

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040015012
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040015012 A1

TITLE: Safe operation of a continuous heterogeneously catalyzed gas-phase partial oxidation of at least one organic compound

PUBLICATION-DATE: January 22, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-----------------------------|-------------|-------|---------|---------|
| Hammon, Ulrich | Mannheim | | DE | |
| Meschke, Jochen | Otterstadt | | DE | |
| Rauh, Ulrich | Frankenthal | | DE | |
| Muller-Engel, Klaus Joachim | Stutensee | | DE | |
| Schlemmer, Peter | Eisenberg | | DE | |

US-CL-CURRENT: 562/532; 562/542, 702/22

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 4. Document ID: US 20030187294 A1

L7: Entry 4 of 36

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187294
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030187294 A1

TITLE: Process for producing catalysts comprising nanosize metal particles on a porous support, in particular for the gas-phase oxidation of ethylene and acetic acid to give vinyl acetate

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|-------------------|-------|---------|---------|
| Hagemeyer, Alfred | Frankfurt | | DE | |
| Dingerdissen, Uwe | Seeheim-Jugenheim | | DE | |

| | | |
|-----------------|--------------|----|
| Kuhlein, Klaus | Kelkheim | DE |
| Manz, Andreas | Sinzheim | DE |
| Fischer, Roland | Neckargemund | DE |

US-CL-CURRENT: 560/241; 502/325, 502/344

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 5. Document ID: US 20020173674 A1

L7: Entry 5 of 36

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020173674

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020173674 A1

TITLE: Production, purification and polymerization of aromatic dicarboxylic acids

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-----------------------|------------|-------|---------|---------|
| Rao, Krishna Kulai | Kingwood | TX | US | |
| Sellen, Russell D. | Beaumont | TX | US | |
| Feng, Xiaobing | Houston | TX | US | |
| Spanswick, James | Wheaton | IL | US | |
| Huber, William F. JR. | Naperville | IL | US | |

US-CL-CURRENT: 560/77; 560/78

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 6. Document ID: US 20020173673 A1

L7: Entry 6 of 36

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020173673

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020173673 A1

TITLE: Production, purification and polymerization of aromatic dicarboxylic acids

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|----------|-------|---------|---------|
| Rao, Krishna Kulai | Kingwood | TX | US | |
| Sellen, Russell D. | Beaumont | TX | US | |
| Feng, Xiaobing | Houston | TX | US | |

US-CL-CURRENT: 560/77; 560/78

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|

☐ 7. Document ID: US 20020028968 A1

L7: Entry 7 of 36

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------------|------------------|-------|---------|---------|
| Graham, Derek Alexander | Cleveland | | GB | |
| Hamley, Paul Anthony | Nottingham | | GB | |
| Ilkenhans, Thomas | Cambridge | | GB | |
| Oliver, Raymond | Stockton on Tees | | GB | |
| Poliakoff, Martyn | Nottingham | | GB | |
| Woodcock, Duncan C. | Cheshire | | GB | |

US-CL-CURRENT: 562/415

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|--------|

☐ 8. Document ID: US 20010003783 A1

L7: Entry 8 of 36

File: PGPB

Jun 14, 2001

PGPUB-DOCUMENT-NUMBER: 20010003783

PGPUB-FILING-TYPE: new-utility

DOCUMENT-IDENTIFIER: US 20010003783 A1

TITLE: Method for preventing effluent gas pipe from blocking

PUBLICATION-DATE: June 14, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---------------------|-------|-------|---------|---------|
| Nishimura, Takeshi | Hyogo | | JP | |
| Matsumoto, Yukihiro | Hyogo | | JP | |
| Nakahara, Sei | Hyogo | | JP | |
| Inada, Misao | Hyogo | | JP | |
| Hirao, Harunori | Hyogo | | JP | |
| Takamura, Mamoru | Hyogo | | JP | |

US-CL-CURRENT: 562/512

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 9. Document ID: US 6765113 B2

L7: Entry 9 of 36

File: USPT

Jul 20, 2004

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

TITLE: Production of aromatic carboxylic acids

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 10. Document ID: US 6727289 B2

L7: Entry 10 of 36

File: USPT

Apr 27, 2004

US-PAT-NO: 6727289

DOCUMENT-IDENTIFIER: US 6727289 B2

TITLE: Boron promoted catalysts and fischer-tropsch processes

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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☐ 11. Document ID: US 6651731 B2

L7: Entry 11 of 36

File: USPT

Nov 25, 2003

US-PAT-NO: 6651731

DOCUMENT-IDENTIFIER: US 6651731 B2

TITLE: Method for cooling heating grade heat exchanger in unsteady state

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMCC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 12. Document ID: US 6642407 B2

L7: Entry 12 of 36

File: USPT

Nov 4, 2003

US-PAT-NO: 6642407

DOCUMENT-IDENTIFIER: US 6642407 B2

TITLE: Production, purification and polymerization of aromatic dicarboxylic acids

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMCC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 13. Document ID: US 6603038 B1

L7: Entry 13 of 36

File: USPT

Aug 5, 2003

US-PAT-NO: 6603038

DOCUMENT-IDENTIFIER: US 6603038 B1

TITLE: Method for producing catalysts containing metal nanoparticles on a porous support, especially for gas phase oxidation of ethylene and acetic acid to form vinyl acetate

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KMCC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 14. Document ID: US 6566551 B2

L7: Entry 14 of 36

File: USPT

May 20, 2003

US-PAT-NO: 6566551

DOCUMENT-IDENTIFIER: US 6566551 B2

TITLE: Method for preventing effluent gas pipe from blocking

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 15. Document ID: US 6548701 B2

L7: Entry 15 of 36

File: USPT

Apr 15, 2003

US-PAT-NO: 6548701

DOCUMENT-IDENTIFIER: US 6548701 B2

TITLE: Process for the preparation of 3-(methylthio)propanal

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 16. Document ID: US 6476256 B1

L7: Entry 16 of 36

File: USPT

Nov 5, 2002

US-PAT-NO: 6476256

DOCUMENT-IDENTIFIER: US 6476256 B1

TITLE: Process and apparatus for preparation of phosphorus oxyacids from elemental phosphorus

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 17. Document ID: US 6420595 B1

L7: Entry 17 of 36

File: USPT

Jul 16, 2002

US-PAT-NO: 6420595

DOCUMENT-IDENTIFIER: US 6420595 B1

TITLE: Process control for vinyl acetate manufacture

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 18. Document ID: US 6359173 B1

L7: Entry 18 of 36

File: USPT

Mar 19, 2002

US-PAT-NO: 6359173

DOCUMENT-IDENTIFIER: US 6359173 B1

**** See image for Certificate of Correction ****

TITLE: Methods and devices for oxidizing a hydrocarbon to form an acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 19. Document ID: US 6320076 B1

L7: Entry 19 of 36

File: USPT

Nov 20, 2001

US-PAT-NO: 6320076

DOCUMENT-IDENTIFIER: US 6320076 B1

TITLE: Process for the preparation of 3-(methylthio) propanal

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|

☐ 20. Document ID: US 6320075 B1

L7: Entry 20 of 36

File: USPT

Nov 20, 2001

US-PAT-NO: 6320075

DOCUMENT-IDENTIFIER: US 6320075 B1

TITLE: Process and apparatus for preparing saturated carboxylic acids having one to four carbon atoms

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|-----|--------|
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☐ 21. Document ID: US 6288270 B1

L7: Entry 21 of 36

File: USPT

Sep 11, 2001

US-PAT-NO: 6288270

DOCUMENT-IDENTIFIER: US 6288270 B1

TITLE: Methods for controlling the reaction rate of a hydrocarbon to an acid by making phase-related adjustments

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 22. Document ID: US 6143843 A

L7: Entry 22 of 36

File: USPT

Nov 7, 2000

US-PAT-NO: 6143843

DOCUMENT-IDENTIFIER: US 6143843 A

TITLE: Simulated condensing mode

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 23. Document ID: US 6114575 A

L7: Entry 23 of 36

File: USPT

Sep 5, 2000

US-PAT-NO: 6114575

DOCUMENT-IDENTIFIER: US 6114575 A

TITLE: Process for preparing 2,6-naphthalenedicarboxylic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|--------|

☐ 24. Document ID: US 5925794 A

L7: Entry 24 of 36

File: USPT

Jul 20, 1999

US-PAT-NO: 5925794

DOCUMENT-IDENTIFIER: US 5925794 A

TITLE: Process for the preparation of 3-(methylthio)propanal

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

☐ 25. Document ID: US 5744647 A

L7: Entry 25 of 36

File: USPT

Apr 28, 1998

US-PAT-NO: 5744647

DOCUMENT-IDENTIFIER: US 5744647 A

TITLE: Process for the preparation of 3-(methylthio) propanal

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

☐ 26. Document ID: US 5693856 A

L7: Entry 26 of 36

File: USPT

Dec 2, 1997

US-PAT-NO: 5693856

DOCUMENT-IDENTIFIER: US 5693856 A

TITLE: Production of terephthalic acid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

☐ 27. Document ID: US 5654475 A

L7: Entry 27 of 36

File: USPT

Aug 5, 1997

US-PAT-NO: 5654475

DOCUMENT-IDENTIFIER: US 5654475 A

TITLE: Methods of making intermediate oxidation products by controlling oxidation rates in an atomized liquid

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

☐ 28. Document ID: US 5637766 A

L7: Entry 28 of 36

File: USPT

Jun 10, 1997

US-PAT-NO: 5637766

DOCUMENT-IDENTIFIER: US 5637766 A

TITLE: Process for the preparation of 3-(methylthio) propanal

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|

☐ 29. Document ID: US 5373030 A

L7: Entry 29 of 36

File: USPT

Dec 13, 1994

US-PAT-NO: 5373030

DOCUMENT-IDENTIFIER: US 5373030 A

TITLE: Polyurethane foams having improved retention of insulative properties and methods for the preparation thereof

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|

☐ 30. Document ID: US 5352837 A

L7: Entry 30 of 36

File: USPT

Oct 4, 1994

US-PAT-NO: 5352837

DOCUMENT-IDENTIFIER: US 5352837 A

TITLE: Process for the preparation of 3-(methylthio)propanal

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. De |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|----------|

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☐ 31. Document ID: US 5347046 A

L7: Entry 31 of 36

File: USPT

Sep 13, 1994

US-PAT-NO: 5347046

DOCUMENT-IDENTIFIER: US 5347046 A

TITLE: Catalyst and process for using same for the preparation of unsaturated carboxylic acid esters

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|--------|

☐ 32. Document ID: US 4952547 A

L7: Entry 32 of 36

File: USPT

Aug 28, 1990

US-PAT-NO: 4952547

DOCUMENT-IDENTIFIER: US 4952547 A

**** See image for Certificate of Correction ****

TITLE: Catalyst for converting methane to higher hydrocarbons, including aromatic compounds

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|--------|
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☐ 33. Document ID: US 4504675 A

L7: Entry 33 of 36

File: USPT

Mar 12, 1985

US-PAT-NO: 4504675

DOCUMENT-IDENTIFIER: US 4504675 A

TITLE: Method for making isobutyric acid or esters thereof

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|--------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|--------|

☐ 34. Document ID: US 4327226 A

L7: Entry 34 of 36

File: USPT

Apr 27, 1982

US-PAT-NO: 4327226

DOCUMENT-IDENTIFIER: US 4327226 A

TITLE: Process and apparatus for producing aromatic dicarboxylic acids

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Dg |
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☐ 35. Document ID: US 4219508 A

L7: Entry 35 of 36

File: USPT

Aug 26, 1980

US-PAT-NO: 4219508

DOCUMENT-IDENTIFIER: US 4219508 A

TITLE: Process for the preparation of low molecular weight polyhydroxyl compounds

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Dg |
|------|-------|----------|-------|--------|----------------|------|-----------|--|--|--------|------|---------|
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☐ 36. Document ID: US 4159307 A

L7: Entry 36 of 36

File: USPT

Jun 26, 1979

US-PAT-NO: 4159307

DOCUMENT-IDENTIFIER: US 4159307 A

TITLE: Apparatus for producing aromatic dicarboxylic acids

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Dg |
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